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New England Biolabs Certificate of Analysis

Product Name: Therminator™ DNA Polymerase

Catalog Number: M0261L Concentration: 2,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that will incorporate 10

nmol of dNTP into acid insoluble material in 30 minutes at 75°C.

Lot Number: 10050518
Expiration Date: 07/2021
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl , 100 mM KCl , 1 mM DTT , 0.1 mM EDTA , 50 %

Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0261S/L v1.0

Therminator™ DNA Polymerase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0261LVIAL	Therminator™ DNA Polymerase	10049201	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10041932	Pass	

Assay Name/Specification	Lot # 10050518
Endonuclease Activity (Nicking) A 50 μl reaction in ThermoPol® Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 20 units of Therminator™ DNA Polymerase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in ThermoPol® Reaction Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 20 units of Therminator™ DNA Polymerase incubated for 4 hours at 37°C and 75°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of T3 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 2 units of Therminator™ DNA Polymerase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Phosphatase Activity (pNPP)	Pass



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This product has been tested and shown to be in compliance with all specifications.

incubation for 16 hours, >90% of the substrate RNA remains intact as determined by

gel electrophoresis using fluorescent detection.

Production Scientist

18 Apr 2019

Michael Tonello

Packaging Quality Control Inspector

24 Jul 2019

